

## CLAIMS

1. A ready-to-use composition for the oxidation dyeing of keratinous fibers and in particular human keratinous fibers such as hair, which comprises,  
5 in a medium appropriate for dyeing:
  - 3-methyl-4-aminophenol and/or at least one of the [sic] its addition salts with an acid, as oxidation base, and
  - at least one enzyme of laccase type.
- 10 2. The composition as claimed in claim 1, wherein the 3-methyl-4-aminophenol and/or its addition salt(s) with an acid represent from 0.0005 to 12% by weight of the total weight of the dyeing composition.
- 15 3. The composition as claimed in claim 2, wherein the 3-methyl-4-aminophenol and/or its addition salt(s) with an acid represent from 0.005 to 6% by weight of the total weight of the dyeing composition.
- 20 4. The composition as claimed in any one of claims 1 to 3, wherein the laccase is chosen from laccases of plant origin, animal origin, fungal origin or bacterial origin and from laccases obtained by biotechnology.
- 25 5. The composition as claimed in claim 4, wherein the laccase is of plant origin and is chosen from the laccases present in the extracts of Anacardiaceae, Podocarpaceae, Rosmarinus off., Solanum tuberosum, Iris sp., Coffea sp., Daucus carota, Vinca

minor, *Persea americana*, *Catharenthus roseus*, *Musa* sp., *Malus pumila*, *Ginkgo biloba*, *Monotropa hypopithys* (Indian pipe), *Aesculus* sp., *Acer pseudoplatanus*, *Prunus persica* and *Pistacia palaestina*.

5 6. The composition as claimed in claim 4, wherein the laccase is of microbial origin or is obtained by biotechnology.

7. The composition as claimed in claim 6, wherein the laccase is chosen from the laccases derived  
10 from *Polyporus versicolor*, *Rhizoctonia praticola*, *Rhus vernicifera*, *Scytalidium*, *Polyporus pinsitus*, *Myceliophthora thermophila*, *Rhizoctonia solani*, *Pyricularia orizae*, *Trametes versicolor*, *Fomes fomentarius*, *Chaetomium thermophile*, *Neurospora crassa*,  
15 *Coriolus versicol*, *Botrytis cinerea*, *Rigidoporus lignosus*, *Phellinus noxius*, *Pleurotus ostreatus*, *Aspergillus nidulans*, *Podospora anserina*, *Agaricus bisporus*, *Ganoderma lucidum*, *Glomerella cingulata*, *Lactarius piperatus*, *Russula delica*, *Heterobasidion annosum*, *Thelephora terrestris*, *Cladosporium cladosporioides*, *Cerrena unicolor*, *Coriolus hirsutus*, *Ceriporiopsis subvermispora*, *Coprinus cinereus*, *Panaeolus papilionaceus*, *Panaeolus sphinctrinus*, *Schizophyllum commune*, *Dichomitus squalens* and  
20 25 variants thereof.

8. The composition as claimed in any one of the preceding claims, wherein the quantity of

laccase(s) is between 0.5 and 200 Lacu per 100 g of dyeing composition.

9. The composition as claimed in any one of the preceding claims, which contains one or more 5 couplers chosen from meta-phenylenediamines, meta-aminophenols, meta-diphenols and heterocyclic couplers.

10. The composition as claimed in claim 9, wherein the couplers are chosen from 2-methyl-5-aminophenol, 5-N-( $\beta$ -hydroxyethyl)amino-2-methylphenol, 10 3-aminophenol, 1,3-dihydroxybenzene, 1,3-dihydroxy-2-methylbenzene, 4-chloro-1,3-dihydroxybenzene, 2,4-diamino-1-( $\beta$ -hydroxyethoxy)benzene, 2-amino-4-N-( $\beta$ -hydroxyethyl)amino-1-methoxybenzene, 1,3-diaminobenzene, 1,3-bis(2,4-diaminophenoxy)propane, 15 sesamol,  $\alpha$ -naphthol, 6-hydroxyindole, 4-hydroxyindole, 4-hydroxy-N-methylindole, 6-hydroxyindoline, 2,6-dihydroxy-4-methylpyridine, 1-H-3-methylpyrazole-5-one, 1-phenyl-3-methylpyrazole-5-one, 2,6-dimethyl-pyrazolo[1,5-b]-1,2,4-triazole, 2,6-dimethyl[3,2-c]- 20 1,2,4-triazole, 6-methylpyrazolo[1,5-a]benzimidazole, and their addition salts with an acid.

11. The composition as claimed in claim 9 or 10, wherein the coupler(s) represent from 0.0001 to 8% by weight of the total weight of the dyeing 25 composition.

12. The composition as claimed in claim 11, wherein the coupler(s) represent from 0.005 to 5% by weight of the total weight of the dyeing composition.

• 13. The composition as claimed in any one of the preceding claims, which contains at least one additional oxidation base chosen from para-phenylenediamines, double bases, para-aminophenols, 5 ortho-aminophenols and heterocyclic oxidation bases.

14. The composition as claimed in claim 13, wherein the additional oxidation base(s) represent from 0.0005 to 12% by weight of the total weight of the dyeing composition.

10 15. The composition as claimed in claim 14, wherein the additional oxidation base(s) represent from 0.005 to 6% by weight of the total weight of the dyeing composition.

15 16. The composition as claimed in any one of the preceding claims, wherein the addition salts with an acid are chosen from hydrochlorides, hydrobromides, sulfates and tartrates, lactates and acetates.

20 17. The composition as claimed in any one of the preceding claims, wherein the medium appropriate for dyeing consists of water or of a mixture of water and at least one organic solvent.

18. The composition as claimed in any one of the preceding claims, which has a pH of [lacuna] 4 and 11.

25 19. A method of dyeing keratinous fibers, and in particular human keratinous fibers such as hair, which comprises the application of at least one ready-to-use dyeing composition as defined in any one of the

preceding claims to said fibers for a sufficient time to develop the desired color.

20. The method as claimed in claim 19, which comprises a preliminary step consisting in storing in a 5 separate form, on the one hand, a composition (A) comprising, in a medium appropriate for dyeing, 3-methyl-4-aminophenol and/or at least one of its addition salts with an acid, as oxidation base, and, on the other hand, a composition (B) containing, in a 10 medium appropriate for dyeing, at least one laccase enzyme, and then in mixing them at the time of use before applying this mixture to the keratinous fibers.

21. A multicompartiment device or dyeing "kit", which comprises a first compartment containing 15 the composition (A) as defined in claim 20 and a second compartment containing the composition (B) as defined in claim 20.